

#### CTEH® Project #40442 **West Fertilizer Plant Explosion Summary of Air Monitoring Results** April 25, 2013 07:00

This data report discusses real-time air monitoring data collected between 4/24/2013 04:00 and 4/25/2013 04:00 in support of remediation operations conducted near the West Fertilizer Plant Explosion in West, TX.

Real-time air monitoring was conducted for VOCs, ammonia (NH<sub>3</sub>), nitrogen dioxide (NO<sub>2</sub>), percent of the lower explosive limit (LEL) and oxygen (O2) using remote-telemetering RAESystems® AreaRAEs and hand-held instruments such as the RAESystems MultiRAE.

Tables 1 and 2 (below) display data summaries for hand-held and AreaRAE instruments, respectively. Site maps and charts are available as attachments.

#### Table 1: Hand-held Real-time Air Monitoring Summary<sup>1</sup>

April 24, 2013 04:00 - April 25, 2013 04:00

Analyte	Instrument	Number of Readings	Number of Detections	Average of Detections	Range of Detections				
Work Area									
VOC	MultiRAE	2	1	0.1 ppm	0.1 ppm				

<sup>1</sup>Please note: The data displayed here has not undergone complete QA/QC analysis and is presented in a preliminary format. PPM = Parts Per Million



Table 2
Stationary AreaRAE Monitoring Stations Data Logged
4/24/2013 04:00 to 4/25/2013 16:00

#12#12010 04:00 to #120/2010 10:00									
Unit	Analyte	Count of Readings	Count of Detections	Average of Detections	Max Detection				
AR13	LEL	5563	0	NA	< 1 %				
	NH3	5563	0	NA	< 1 ppm				
	NO2	5563	0	NA	< 0.1 ppm				
	02	5563	5563	20.9 %	20.9 %				
	VOC	5563	566	0.1 ppm	0.2 ppm				
AR14	LEL	4940	0	NA	< 1 %				
	NH3	4940	0	NA	< 1 ppm				
	NO2	4940	47	0.1 ppm	0.2 ppm				
	O2	4940	4940	20.9 %	21.3 %				
	VOC	4940	0	NA	< 0.1 ppm				
AR16	LEL	4764	0	NA	< 1 %				
	NH3	4764	0	NA	< 1 ppm				
	NO2	4764	0	NA	< 0.1 ppm				
	02	4764	4764	20.9 %	21.1 %				
	VOC	4764	0	NA	< 0.1 ppm				
AR17	LEL	5499	0	NA	< 1 %				
	NH3	5499	0	NA	< 1 ppm				
	NO2	5499	0	NA	< 0.1 ppm				
	02	5499	5499	21.1%	21.4 %				
	VOC	5499	1	0.1 ppm	0.1 ppm				
AR18	LEL	5007	0	NA	< 1 %				
	NH3	5007	0	NA	< 1 ppm				
	NO2	5007	0	NA	< 0.1 ppm				
	02	5007	5007	21.1 %	21.5 %				
	VOC	5007	0	NA	< 0.1 ppm				

<sup>&</sup>lt;sup>1</sup> The data in this table may include electronic drift. Drift is defined as any interference in the electrochemical sensor's ability to accurately report the concentration of a chemical in the atmosphere. Humidity and temperature changes throughout the monitoring period are typical sources of drift. Additionally, the data has not undergone complete QAQC as of this time.



# **Appendix**



## Air Monitoring Zone Classifications<sup>1</sup> April 25, 2013

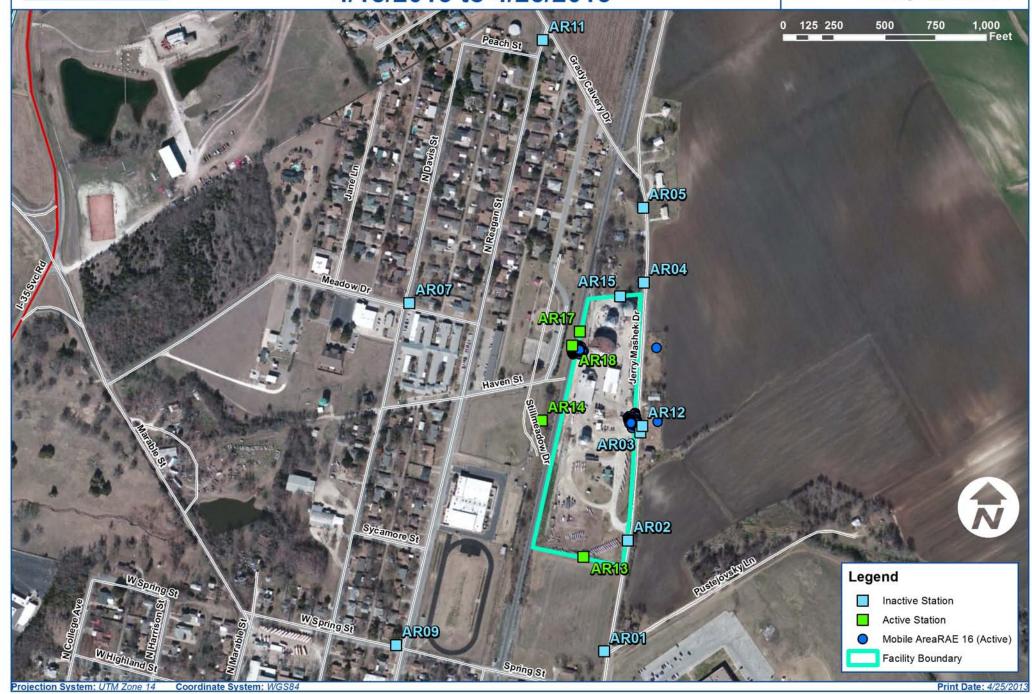
Project: 40442 Client: OMI City: West, TX County: McLennan





### AreaRAE Monitoring Station Locations 4/18/2013 to 4/25/2013

Project: 40442 Client: OMI City: West, TX County: McLennan





### Manually Logged VOC Real-Time Readings 4/24/2013 0:400 to 4/25/2013 04:00

Project: 40442 Client: OMI City: West, TX County: McLennan





## AreaRAE Detections 4/24/2013 04:00 to 4/25/2013 04:00

